## CONTENTS

Nitrogen cycling in an Antarctic ecosystem. 1. Biological nitrogen	
fixation in the vicinity of Syowa Station	
Тakayuki Nakatsubo and Yoshio Ino	1
Allelopathic effect of penguin excrements and guanos on the growth of Antarctic soil algae	
Masaru Akiyama, Hiroshi Kanda and Yoshikuni Ohyama	11
Seasonal changes of some environmental factors around the moss vegeta- tion near Syowa Station, East Antarctica	
Hiroshi Kanda	17
Morphological variation and taxonomic interpretation in the moss genus  Bryum in Antarctica	
	27